MULTIMEDIA UNIVERSITY

STUDENT ID NO

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# MULTIMEDIA UNIVERSITY

# FINAL EXAMINATION

**TRIMESTER 1, 2015/2016**

## DAC5038 – COMPUTER APPLICATIONS FOR ENGINEERING

(For Diploma students only)

13 OCTOBER 2015
2.30 p.m. – 4.30 p.m.
(2 Hours)

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**INSTRUCTIONS TO STUDENT**

1. This question paper consists of **3 pages** excluding the cover page.

2. There are **2 sections** in this Question paper.

   **Section A:** 20 True/False Questions (20 marks)
   **Section B:** 4 Structured Questions (80 marks)

3. Please write all your answers in the **Answer Booklet** provided.

**Section A: 20 True/False Questions (20 marks)**

*Instruction: Please write your answers in the **Answer Booklet** provided.*

1. Microprocessor is the example of input device.
2. Output devices enable you to send processed data out of your computer.
3. Dropbox and OneDrive are type of Cloud storage.
4. Powering on your computer from a completely turned off state is called a cold boot.
5. Web browser is the software that lets you display and interact with text and other media on web.
6. Wiki is a personal log or journal posted on web.
7. A wizard is a predesigned form.
8. Microsoft office is software suite.
9. Software licenses specify the minimum recommended standards for the operating system, processor, primary memory and hard drive capacity.
10. Command-driven interface is one in which you enter commands to communicate with the computer system.
11. Windows has a built-in file compression utility that takes out redundancies in a file to reduce the file size.
12. ALU is responsible for performing all the arithmetic calculations and makes logic and comparison decisions.
13. RAID 0 technology is used when you need an instant backup of your work.
14. Cat 6 cable was designed for 100 Mbps wired Ethernet networks.
15. DSL uses twisted-pair cable to connect your computer to Internet.
16. VoIP is phone service that has extremely high quality but is very expensive service.
17. Logic bomb is a virus that is triggered by the passage of time or on a certain date.
18. White-hat hackers break into systems to destroy information or for illegal gain.
19. Primary key is required in each table to keep records distinct.
20. Transaction processing system is a computer-based information system that supports business or organizational decision-making activities.

**Section B: 4 Structured Questions (80 marks)**

*Instruction: Please write your answers in the **Answer Booklet** provided.*

**Question 1:**

a) Jessica would like to get a new LCD monitor for her computer. What are the factors that she has to consider when purchasing a LCD monitor? Give any FOUR factors that should take into consideration when purchasing a LCD monitor. [4 marks]

b) Internet is client/ server network. What is a client and server in the network? [4 marks]

**Continued .....**

c) Your brother is planning to buy a gaming keyboard online. Advise him with FOUR online shopping precautions that he should take into consideration. [8 marks]

d) What are the differences between Random Access Memory (RAM) and hard drives? [4 marks]

**Question 2:**

a) What are the main differences between Application Software and System Software? [4 marks]

b) Mr. John starts his small online clothing business in Jan 2016. He requested you to propose FOUR type of application software to be installed in his company's PCs. What are the software that you would propose to him? Justify your reasons. [8 marks]

c) Briefly explain FOUR different kinds of Operating Systems. [8 marks]

**Question 3:**

a) Briefly explain the FOUR processes in the machine cycle. [4 marks]

b) Categorise the following type of technology user. [3 marks]

i. Ms. Juwita is a game designer. She has to use software to design the computer game.
ii. Mr. Ken is a police officer and he only use computer to produce reports.
iii. Mr. Anandraj a is marketing manager. He always travel to other countries to attend meeting.

c) Mr. Ahmad setup a wireless LAN in his house. However, he found out that the throughput is not as expected. What are the FIVE factors that decreased throughput in wireless network? [5 marks]

d) List FOUR classifications of network architecture. Give ONE example for each classification. [8 marks]

**Continued .....**

**Question 4:**

a) Jonathan bought a new mobile phone. He wants to synchronize the information between his computer and his new mobile phone. Recommend him TWO methods to transfer information between mobile phone and computer.
[4 marks]

b) Anna is new to Internet banking. She is required to create a password in the bank website in order for her to gain access to the system. What are your advices to her to create a strong password? [8 marks]

c) Briefly explain TWO advantages and TWO disadvantages of using databases in a company? [8 marks]

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